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25X1



PHOTOGRAPHIC INTERPRETATION REPORT

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AIR WARNING RADAR FACILITIES NORTH KOREA

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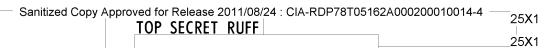
AIR WARNING RADAR FACILITIES NORTH KOREA

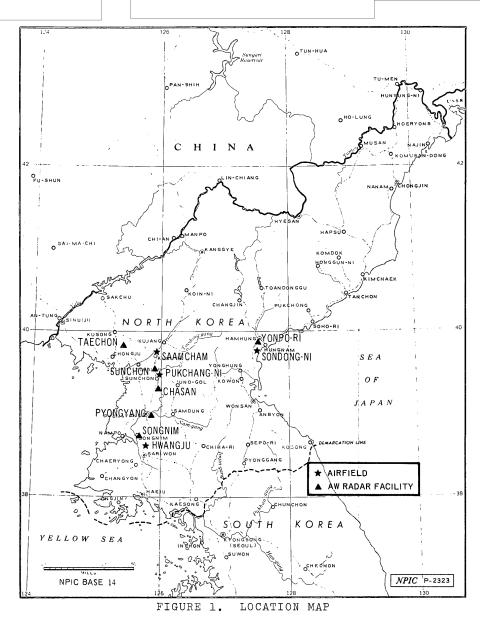
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| Tak | ole 1. AW Rad | dar Facilities in North | Vorce |
|------------------------|-------------------------|---|-------|
| Site Name | Location | Radars Observed | 25X1 |
| Pyongyang AW Radar Fac | 38-59-40N 125-49-52E | BAR LOCK FLAT FACE SQUAT EYE Poss KNIFE REST Poss HEIGHT FINDER | 25X1 |
| Yonpo-ri AW Radar Fac | 39-48-18n 127-32-16E | | 25X1 |
| Sunchon AW Radar Fac | 39-28-35N 125-54-08E | BAR LOCK Poss SIDE NET | 25X1 |
| Chasan AW Radar Fac | 39-17-57N 125-56-35E | BAR LOCK Poss SIDE NET | 25X1 |
| Songnim AW Radar Fac | 38-45-05N 125-42-10E | TOKEN-Type | 25X1 |
| Taechon AW Radar Fac | 39-49-10N 125-24-00E | BAR LOCK Prob HEIGHT FINDER | 25X1 |
| | | - ii - | 25X1 |
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AIR WARNING RADAR FACILITIES, NORTH KOREA

ABSTRACT

| 1. This report confirms the existence of six air warning | |
|---|------|
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| , constitute the North Korean Ground Control Intercept (GCI) 2 | :5X1 |
| network. In addition, the unique site at the senior fighter | |
| control center near Chasan is described in detail. The report is | |
| based on both KEYHOLE (KH) and GIANT SCALE (GS) photography of | |
| North Korea and contains a location map, a table, a line drawing, | |
| and six photographs. | |

INTRODUCTION

2. Although NPIC had targeted five of the six AW radar sites, there was no indication that these sites constituted an AW network until receipt of the ELINT information. NSA has identified BAR LOCK and SIDE NET radars at each of the sites. Photography has confirmed BAR LOCKS at each of the sites, SIDE NETS at two of the sites, and unidentified height-finding radars at two other sites. A complete listing of the electronics order of battle observed at each site is contained in Table 1.

BASIC DESCRIPTION

- 3. Four of the AW radar sites, Sunchon, Yonpo-ri, Songnim, and Taechon (Figures 1 through 5), are in each of the North Korean Air Force (NKAF) fighter divisions. They are near the four North Korean airfields at which MIG-21 (FISHBED) aircraft are deployed. The fifth radar site (Figure 6) is at the NKAF command post at Pyongyang East (Mirim-ni) Airfield.
- 4. The senior fighter control center near Chasan is the location of the sixth radar site (Figures 7 and 8). This is a unique site in that each of the two positions consists of a radar on a circular elevator. Observation subsequent to construction revealed one of these platforms lowered into the silo. Probable semicircular concrete doors can apparently move on rails to cover the openings. A BAR LOCK radar and a possible SIDE NET radar occupy these positions. The silo diameters are 25X1 the length of the BAR LOCK reflectors 25X1 is approximately 10 meters (33 feet). According to an NPIC report2, the reflectors of the BAR LOCK radar fold to a length small enough to allow the radar to be lowered into the silo. 25X1 personnel entrances 25X1 25X1 25X1 25X1 Photo Interpretation Memorandum, Hardening of Air Warning Radar Facilities in USSR, Romania, and Poland, Feb 70 (TOP SECRET RUFF)

NPIC/IEG/EGD/NKB Project 150066NY

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25X1

25X1

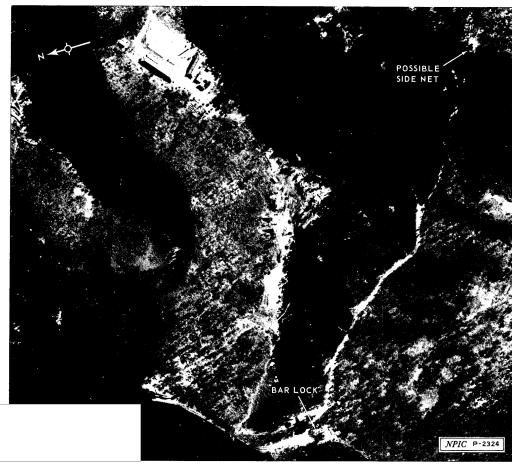


FIGURE 2. SUNCHON AW RADAR FACILITY, NORTH KOREA



FIGURE 3. YONPO-RI AW RADAR FACILITY, NORTH KOREA

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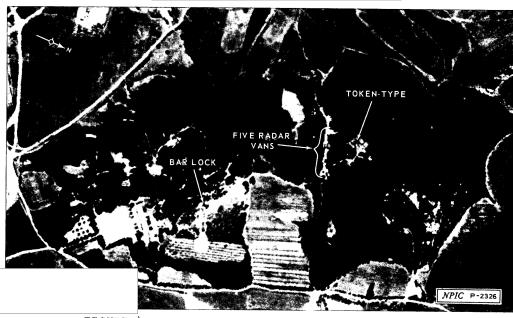


FIGURE 4. RADAR FACILITY, NORTH KOREA

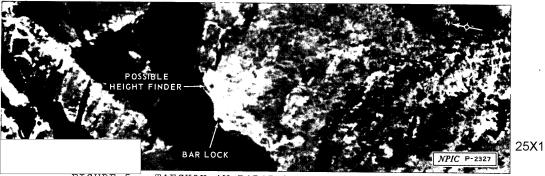


FIGURE 5. TAECHON AW RADAR FACILITY, NORTH KOREA

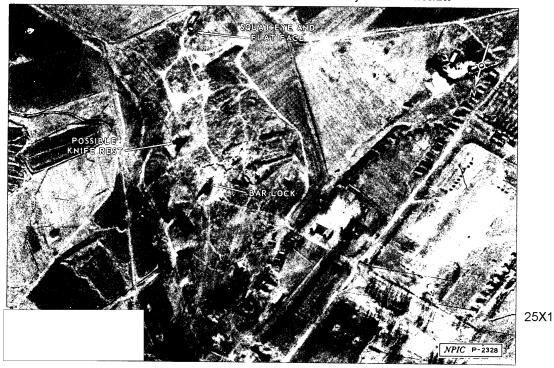


FIGURE 6. PYONGYANG AW RADAR FACILITY, NORTH KOREA

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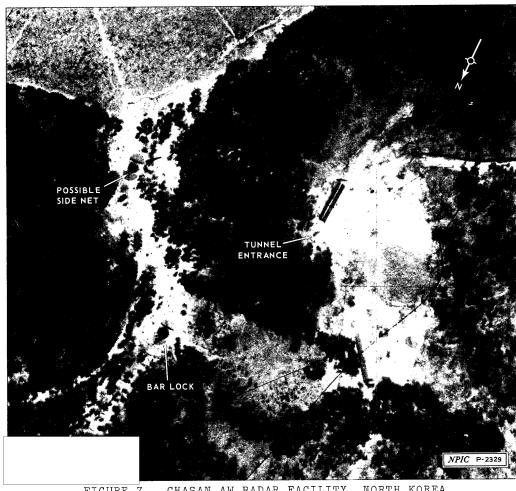
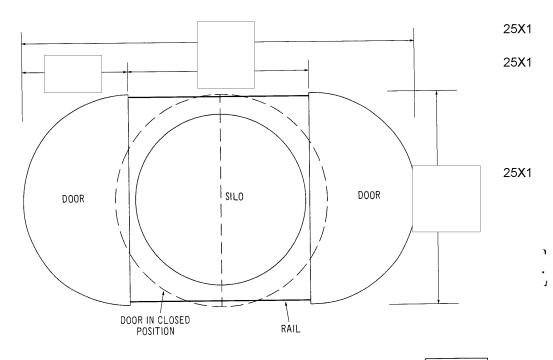


FIGURE 7. CHASAN AW RADAR FACILITY, NORTH KOREA



Measurements are accurate to within \pm 1.5 meters (4.9 feet) and 2% with a 95% confidence level

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FIGURE 8. LINE DRAWING OF RADAR POSITION, CHASAN AW RADAR FACILITY

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